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Stafford- [] Polyakov
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 Bertero & Klinger :
 [] Kahn Hanson []
 Kwan [] Brokken Bertero
 : [] & Liauw
 Tomazevic
 Zarnic

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 Al-Chaar
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 Colangelo
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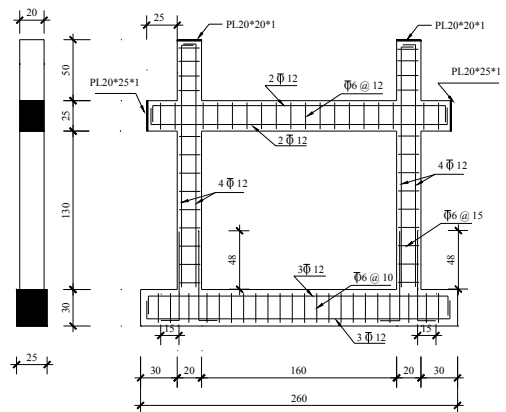
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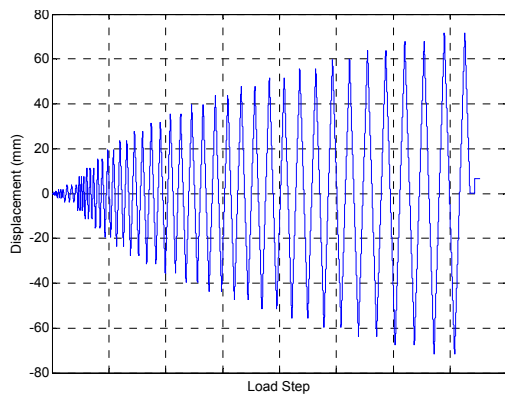
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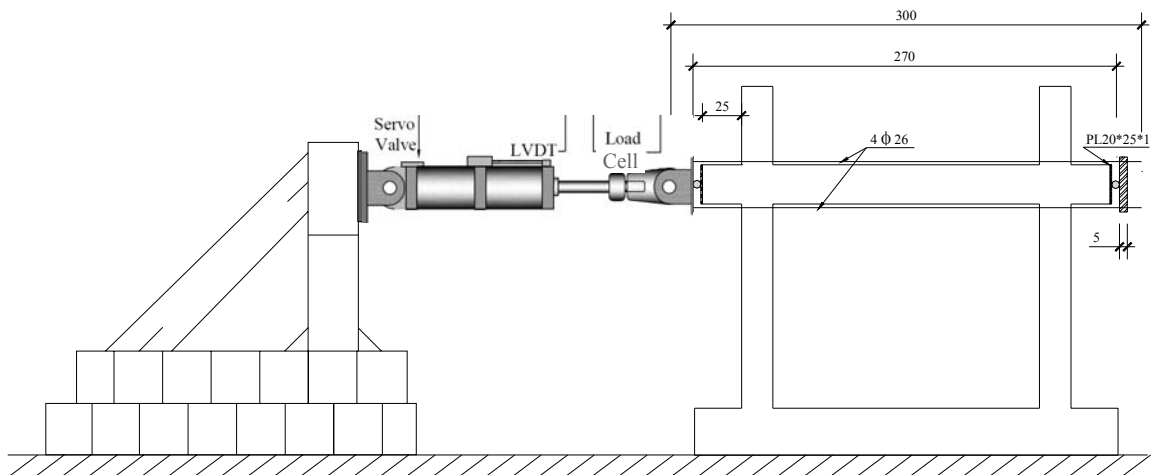
شکل ۱: ابعاد (cm) و جزئیات آرماتورگذاری نمونه‌ها.



شکل ۲: تاریخچه بارگذاری نمونه‌ها.

جدول ۱: میانگین مشخصات مصالح.

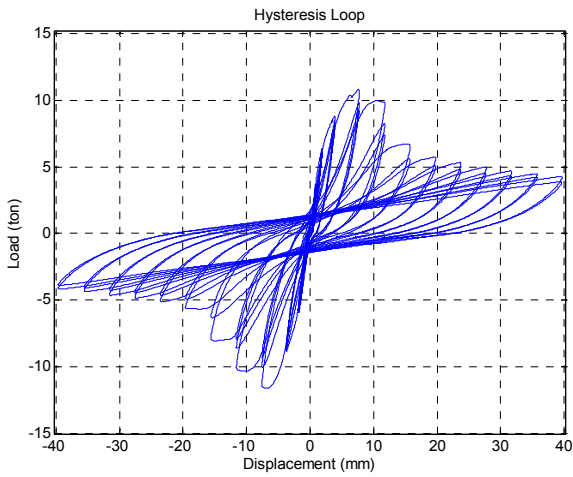
			(Kg/Cm ²)	(Kg/m ³)
	* *			
			/	-
	* *			



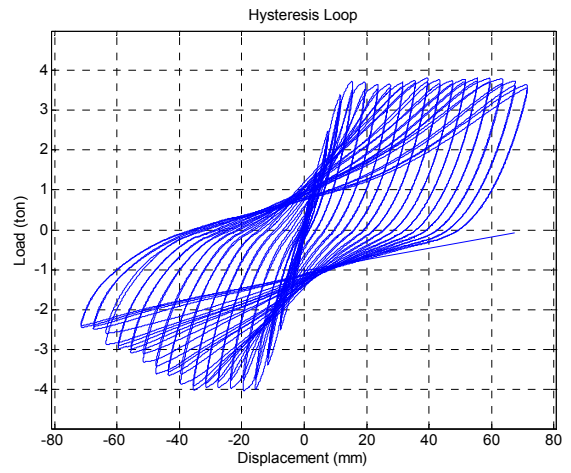
شکل ۳: سیستم بارگذاری.

MATLAB

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شکل ۶: منحنی رفتاری قاب با میان قاب سفالی.



شکل ۴: منحنی رفتاری قاب بدون میان قاب

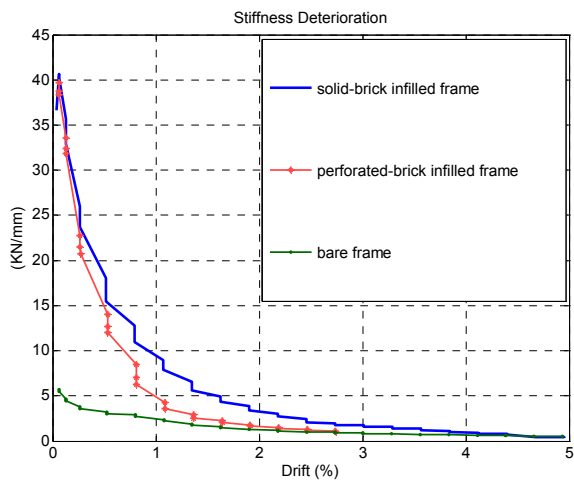
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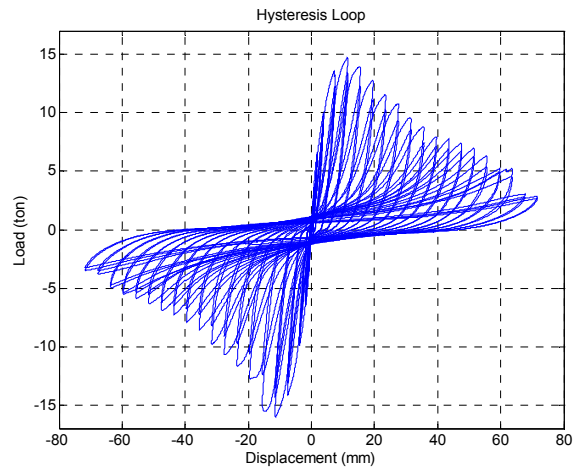
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شکل ۷: منحنی تغییرات سختی در نمونه‌های مختلف.

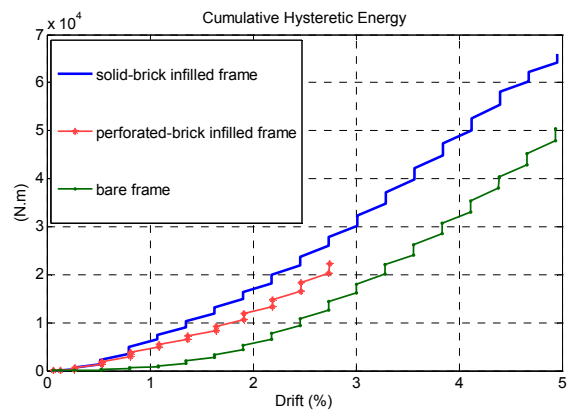


شکل ۵: منحنی رفتاری قاب با میان قاب آجر فشاری.

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شکل ۸: منحنی انرژی هیستریزیس تجمعی در نمونه‌های مختلف.

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KN.m

KN.m

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KN.m

KN.m

KN.m



شکل ۹: مفاصل پلاستیک ایجاد شده در ی قاب بدون میان قاب، الف) بالای ستون، ب) پایین ستون.

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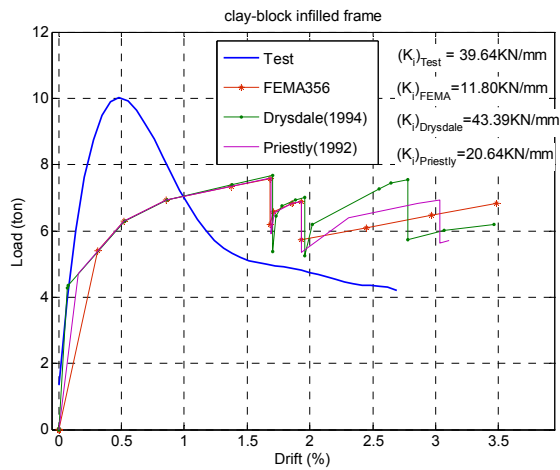
شکل ۱۱: الگوی ترک خوردگی در قاب دارای میان قاب سفالی.



شکل ۱۰: الگوی ترک خوردگی در قاب دارای میان قاب آجر فشاری.

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FEMA 356



شکل ۱۳: مقایسه نتایج تحلیلی و آزمایشگاهی، میان قاب سفالی.

Drysdale

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: [] () Paulay, Priestley
 $a = \frac{1}{4} r_{inf}$ ()

: [] () Drysdale, () Hendry

$$\alpha_h = \frac{\pi}{2} \sqrt{\frac{4E_c I_c h}{E_m t \sin 2\theta'}} \quad ()$$

$$\alpha_L = \frac{\pi}{2} \sqrt{\frac{4E_c I_b L}{E_m t \sin 2\theta'}} \quad ()$$

$$a = \frac{1}{2} \sqrt{\alpha_h^2 + \alpha_L^2} \quad ()$$

: [] () (FEMA- 356) Mainstone

$$a = 0.254(\lambda_1 h_{col})^{-0.4} r_{inf} = 0.254 \left(\frac{\pi h}{2\alpha_h} \right)^{-0.4} r_{inf} \quad ()$$

: () ()

:a

:r_{inf}

:α_L, α_h

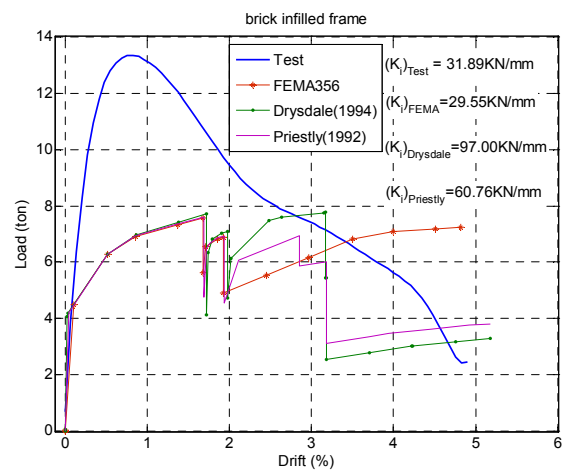
I_c, I_b

E_c, E_m

:h, L

:t

:θ



شکل ۱۲: مقایسه نتایج تحلیلی و آزمایشگاهی، میان قاب آجر فشاری.

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